

CLAIMS

1. (Original) A photoelectric cell comprising first and second electrodes, a plurality of nanowires which extend between the electrodes, and a structure disposed between the nanowires.
2. (Original) A photoelectric cell according to claim 1, wherein the structure is a columnar structure.
3. (Previously presented) A photoelectric cell according to claim 1, wherein the structure comprises tubes each of which are located around a respective nanowire.
4. (Previously presented) A photoelectric cell according to claim 3, wherein the tubes extend between the electrodes.
5. (Previously presented) A photoelectric cell according to claim 1, wherein the structure comprises organic polymer material.
6. (Previously presented) A photoelectric cell according to claim 5, wherein the organic polymer material comprises a cross-linked organic compound.
7. (Previously presented) A photoelectric cell according to claim 5, wherein the organic polymer material comprises a polyaromatic compound.
8. (Previously presented) A photoelectric cell according to claim 5, wherein the organic polymer material is in a liquid crystalline phase.
9. (Original) A photoelectric cell according to claim 8, wherein the phase is a columnar liquid crystalline phase.

10. (Previously presented) A photoelectric cell according to claim 1 wherein the nanowires are fabricated from inorganic material.
11. (Original) A photoelectric cell according to claim 10, wherein the nanowires are fabricated from inorganic semiconductor material.
12. (Original) A photoelectric cell according to claim 11, wherein the inorganic semiconductor material comprises II-IV or II-VI inorganic nanocrystals.
13. (Previously presented) A photoelectric cell according to claim 11, wherein the nanocrystals have an ionisation potential that is higher than that of the surrounding inorganic material.
14. (Previously presented) A photoelectric cell according to claim 10, wherein the inorganic material comprises transition metal ions.
15. (Original) A photoelectric cell according to claim 14, wherein the transition metal ion is selected from the group consisting of cadmium and zinc.
16. (Previously presented) A photoelectric cell according to claim 10, wherein the inorganic material comprises an anionic species.
17. (Original) A photoelectric cell according to claim 16, wherein the anionic species is selected from the group consisting of sulfur, selenium and tellurium.
18. (Previously presented) A photoelectric cell according to claim 1, wherein the nanowires are less than 20 nanometres in diameter.
19. (Original) A photoelectric cell according to claim 18, wherein the nanowires are less than 10 nanometres in diameter.
- 20-26. (Cancelled).